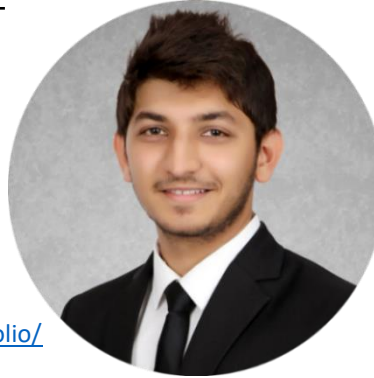


## PERSONAL DETAILS

Name: **Rajit Sanghvi**  
 Address: Tierer Str. 99D,  
 D- 56072, Koblenz.  
 Telephone: +49 176 42079463  
 E-Mail: [rajit.msanghvi@gmail.com](mailto:rajit.msanghvi@gmail.com)  
 Birth Date: 01. June. 1995  
 Nationality: Indian  
 Family Status: Single  
**GitHub:** <https://github.com/sanghvirajit>  
**Portfolio:** <https://sanghvirajit19.github.io/Portfolio/>



## PROFESSIONAL EXPERIENCE

10/2020 - current	Universität Koblenz-Landau, Koblenz, Germany. <b>Research Associate, Institute of Mathematics and Computer Science</b> <ul style="list-style-type: none"> <li>• <b>Research in Mathematical Optimization, and Deep Neural Networks (DNN).</b></li> <li>• Parallel training of Deep Neural Networks.</li> <li>• Computational Programming using powerful linear algebra package <b>EIGEN in C++</b> and <b>Data Analysis/Visualization</b> using <b>Python</b> packages like <b>NumPy, Pandas, Matplotlib, and Seaborn.</b></li> </ul>
03/2021 - current	Neptune.ai <b>Technical Writer, Freelance</b> <ul style="list-style-type: none"> <li>• I write about <b>Deep learning</b> using the deep learning framework like <b>Tensorflow</b> and <b>PyTorch</b>, and the ML experiment tracking tool Neptune.</li> <li>• <a href="https://neptune.ai/blog/early-stopping-with-neptune">https://neptune.ai/blog/early-stopping-with-neptune</a></li> </ul>
05/2020 - 09/2020	Simerics GmbH, Rottenburg am Neckar, Germany. <b>Internship, Research and Development</b> <ul style="list-style-type: none"> <li>• Development of <b>Python library</b> for mixed timescale coupling using <b>Python packages</b> like <b>NumPy, Pandas, Matplotlib, and Seaborn.</b></li> <li>• Implementation of <b>numerical Fluid-Structure Interaction (FSI) coupling algorithms</b> for FSI coupling adapters in Python.</li> </ul>
05/2019 -11/2019	IAV GmbH, Chemnitz, Germany. <b>Master's thesis, Department of Internal Combustion Engine Simulation.</b> <ul style="list-style-type: none"> <li>• Investigation of the Turbine Downstream to increase the turbine pressure ratio and thus the turbine performance. Perform meshing and 3D- CFD simulations of the models using CFD-tool StarCCM+.</li> </ul>
10/2018 - 03/2019	Bosch Rexroth AG, Lohr am main, Germany. <b>Internship, Industrial Hydraulics Department.</b> <ul style="list-style-type: none"> <li>• <b>Shape optimization</b> of hydraulic valves and pumps using the adjoint method with CFD simulation to determine the optimal design with the objective function of minimizing pressure drop.</li> </ul>

## LANGUAGES

German (B1) ● ● ● ○ ○  
 English ● ● ● ● ●

## SKILLS

PyTorch ● ● ● ● ○  
 TensorFlow ● ● ● ○ ○  
 Keras ● ● ● ○ ○  
 LaTeX ● ● ● ● ○  
 SQL ● ● ● ○ ○




## PROGRAMMING- SKILLS

Python ● ● ● ● ○  
 C/C++ ● ● ● ● ○  
 Matlab ● ● ● ○ ○

## OPERATING SYSTEMS

Windows ● ● ● ● ●  
 Linux ● ● ● ● ●

## HOBBIES

 Cooking  
 Reading  
 Table-Tennis

09/2016 -09/2017	Bosch Rexroth (India) Pvt Ltd. <b>Design Engineer, Hydraulic Control Department.</b> <ul style="list-style-type: none"> <li>Design and testing of industrial hydraulic valves. Creation of 2D/3D technical drawings with CAD programs.</li> </ul>
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## EDUCATION

10/2017 -09/2020	<b>Masters of Science in Computational Science and Engineering</b> Ruhr-Universität Bochum, Germany  Abschlussnote: 1.6
06/2012 -03/2016	<b>Bachelor of Technology in Mechanical Engineering</b> Indus University, India  Abschlussnote: 9.22/10

## ONLINE COURSE

May 2021	<b>The Complete SQL BootCamp 2021</b> Udemy <ul style="list-style-type: none"> <li>Read and write complex queries to a database using <b>PostgreSQL</b> and <b>PgAdmin</b>.</li> <li>Retrieve and Analyzing data from the database.</li> <li>Using <b>psycpg2</b> library in Python to interact with a database in PostgreSQL with Python.</li> <li>Python to further advanced SQL skills.</li> </ul>
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## VOLUNTEERING EXPERIENCE

02/2018 - 03/2019	<b>Vice President, Student Council</b> Ruhr-Universität Bochum, Germany <ul style="list-style-type: none"> <li>Representing the student body at various events and other meetings.</li> <li>Planning and implementing various social events.</li> </ul>
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## AWARDS

2017	<b>Gold Medal</b> Indus Universität, India  Awarded for academic excellence in the bachelor's degree program.
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## REFERENCES

SIMERICS GmbH  
 Herr Dr.-Ing. Uwe Fechter  
 Gartenstraße 82  
 72108 Rottenburg (Germany)  
 E-mail: uwe.fechter@simerics.de  
 Telefon: +49 7472 95731-14

Koblenz, 06/2021 